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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/472,954	12/27/1999	Takao Kuwabara	Q56523	9412
7590 11/12/2003		EXAMINER		
SUGHRUE MION ZINN MACPEAK & SEAS PLLC 2100 PENNSYLVANIA AVENUE NW			SPEARS, ERIC J	
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WASHINGTON	N, DC 200373202		2878	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Commonstrate Commonstrat		_	Application No.	Applicant(s)					
Examiner Exami	Office Action Summary		09/472.954	KUWABARA, TAKAO					
Eric J Spears 2878									
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edaminism of time may be available under the provision of 37 OFR 1.13(a). In a event, however, may a reply be timely find other SIX (6) MONTHS from the mailing date of this communication of 17 OFR 1.13(a). In a event, however, may a reply be timely find other SIX (6) MONTHS from the mailing date of this communication. • If the period of may be previously to the set of the communication of 17 OFR 1.13(a). In a event, however, may a reply be timely find other SIX (6) MONTHS from the mailing date of this communication. • If the period of may be previously the set of extended principle of the provision of 17 OFR 1.13(a). • If the period of may be previously the set of extended principle of the provision of 18 ofR 1.13(a). • If the period of the set of the set of the provision of 18 ofR 1.13(a). • If the period of the set of this communication, even if timely filed, may reduce any examined patient turm adjustment. Set 37 OFR 1.76(b). • Status • If the period of the set of this communication, even if timely filed, may reduce any examined patient turm adjustment. Set 37 OFR 1.76(b). • Status • If the period of the set of t			·						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of them may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed * the period for reply specified above like insections of 37 CFR 1.138(a). In no event, however, may a reply be timely filed * If his period for reply specified above like insections of 37 CFR 1.138(a). In no event, however, may a reply be timely filed * If his period for reply specified above like insections of 37 CFR 1.138(a). In the period for reply specified above like insection in studency period slapely and will expect \$30 (k) 00 MONT from the maining date of this communication. * Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the Office diset han three anothers are subjected to the communication, even if timely filed, may reduce any * Status* ***Status** ***Total Responsive to communication(s) filed on **ZT December 1999** **2a)									
Extensions of time may be surplised under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (8) MORITS from the mailing date of this communication. If the period for reply specified above is less than high (30) days, a reply within the statutory minimum or thinty (30) days, will be considered timely. If the period for reply specified above is less than high (30) days, a reply within the statutory minimum or thinty (30) days will be considered timely. Failure to reply within the set or extended period for reply will by failure, onese the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three members after the mailing date of this communication, even if timely filed, may reduce any examed patient term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 December 1999. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected to. 8) Claim(s) 1-10 is/are rejected to. 8) Claim(s) 1-10 is/are rejected to by the Examiner. 10) The proposed drawing correction filed on is/are allowed. 10) The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Acknowledgment is made of a claim for domestic pr	• •								
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Attachment(s)	Attachment	i(s)	•						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Inform						

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DETAILED ACTION

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

The disclosure is objected to because of the following informalities: the specification appears to be a unedited direct computer translation of a Japanese application and thus contains many grammatical errors. An example of such an error is found on Page 2, lines 9-18. Appropriate correction is required to put the specification into proper English.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the method of Claim 1, the method recited in Claim 2, and the details of the solid-state imager as recited in Claims 5, 6, 7, and 8 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Objections

Claims 1-10 are objected to because of the following informalities: the claims appear to be a unedited direct computer translations of a Japanese application and thus contains many grammatical errors. An example of such an error is found on Claim 1, lines 5-9. Appropriate correction is required to put the claims into proper English.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 1, it is unclear as to what constitutes "radiation". For examination purposes it will be interpreted as meaning electromagnetic radiation.

Regarding Claim 1, it is unclear what the term "a maximum value" is referring to.

In light of the specification, the term will be interpreted as meaning equal to the largest of the pixel signals.

Regarding Claim 1, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the

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specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a- -.

Claim 1, line 9 recites the limitation "the signal value". There is insufficient antecedent basis for this limitation in the claim.

Regarding Claim 2, it is unclear as to what constitutes "radiation". For examination purposes it will be interpreted as meaning electromagnetic radiation.

Regarding Claim 2, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a- -.

Regarding Claim 3, it is unclear as to what constitutes "radiation". For examination purposes it will be interpreted as meaning electromagnetic radiation.

Regarding Claim 3, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a- -.

Regarding Claim 3, it is unclear what the term "a maximum value" is referring to.

In light of the specification, the term will be interpreted as meaning equal to the largest of the pixel signals.

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Regarding Claim 3, line 11 recites the limitation "the signal value". There is insufficient antecedent basis for this limitation in the claim.

Regarding Claim 4, it is unclear as to what constitutes "radiation". For examination purposes it will be interpreted as meaning electromagnetic radiation.

Regarding Claim 4, line 11 recites the limitation "the signal value". There is insufficient antecedent basis for this limitation in the claim.

Regarding Claim 4, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a- -.

Regarding Claim 9, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a- -.

Regarding Claim 9, it is unclear what the term "a maximum value" is referring to.

In light of the specification, the term will be interpreted as meaning equal to the largest of the pixel signals.

Regarding Claim 10, the phrase "pixel signals each representing a signal value of each pixel" renders the claim indefinite as this phrase implies that each pixel signal is representative of all of the pixels, which is contrary to what is understood from the

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specification. For examination purposes the claim will be interpreted as the word "each" on line 4, reads --a - -.

Claims not specifically mentioned are indefinite due to their dependence from an indefinite base claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al. (5,289,286).

Regarding Claim 1, Nakamura teaches a method by which pixel signal outputs from a solid-state imaging device are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

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Regarding Claim 2, Nakamura teaches a method by which pixel signal outputs from a solid-state imaging device are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

Regarding Claim 3, Nakamura teaches a signal correction device (Fig. 11) by which pixel signal outputs from a solid-state imaging device 112, which is irradiated by light 110 are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity (i.e. at saturation level) of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

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Regarding Claim 4, Nakamura teaches a signal correction device (Fig. 11) by which pixel signal outputs from a solid-state imaging device 112, which is irradiated by light 110 are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity (i.e. at saturation level) of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

Regarding Claim 9, Nakamura teaches a signal correction device (Fig. 11) by which pixel signal outputs from a solid-state imaging device 112, which is irradiated by light 110 are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity (i.e. at saturation level) of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

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Regarding Claim 10, Nakamura teaches a signal correction device (Fig. 11) by which pixel signal outputs from a solid-state imaging device 112, which is irradiated by light 110 are corrected such that they equal a reference value (See abstract; Col. 6, lines 1-200). Nakamura does not teach the precise reference value in relation to the uncorrected pixel signal. However, the exact choice of reference value would have been obvious to one of ordinary skill in the art as an obvious design choice, since all pixels will be equal after correction, in order to allow for easier absolute signal level adjustment or amplification. Nakamura does not teach the intensity (i.e. at saturation level) of the uniform light used in the correction. However, the precise intensity would have been obvious to one of ordinary skill in the art, in order to calibrate the pixels at any arbitrary light level.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al. (5,289,286) in view of Applicant's Admitted Prior Art (AAPA) page 10, line 15 through Page 12, line 3.

Regarding claims 5-8, the modified device of Nakamura does not teach the recited specifics of the solid-state image sensor. However, the AAPA teaches that sensors with the recited structure have been disclosed (i.e. are well known in the art) (See specification page 10, line 15 through Page 12, line 3). It would have been obvious to one of ordinary skill in the art to use the modified correction devices of Nakamura with a known solid-state image sensor, in order to provide added functionality to the image sensor.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Compton (5,455,622) teaches a signal processing device.

Maeshima (5,038,225) teaches a signal processing device.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eric Spears whose telephone number is (703) 306-

0033. The examiner can normally be reached on Monday-Friday from 10:00am to

6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dave Porta can be reached on (703) 308-4852. The fax phone number for

the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

EJS

10/08/03

Que T. Le Primary Examiner